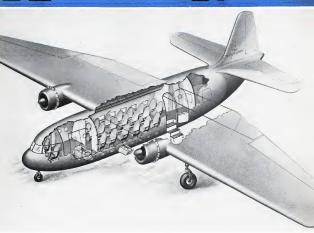
Aviation Teys MGRAW-HILL PUBLISHING COMPANY, INC. OCTOBER 9, 1944



FAA Proposes Plane for Local Service: This drawing embodies principles sought by the Feeder Artines Association, in a plane suggested by the associations technical committee for local-feeder-pickup service. Note high wing, tricycle landing gear, steps that let down when passenger door is opened, mousble cargo bulkheded, and bins under floor for mail and small carpress packages for points enroute. Sketch was made by Don Seevers, executive director of the association. Detailed specifications are being submitted to manufacturers. (See other pictures on Page 49).

New OCS Regulation Designed to Speed Termination

Office headed by R. H. Hinckley gives contractor chance to buy government-owned equipment in his plant or have it removed within 60 days, except when necessary for other war purposes... Page 7

Provisional Routes Prime Aim of World Air Talks

ACCA Council Asks Further Easing of Regulations

Geuting and Morgan present statement of policy on freedom of personal flight to Burden, Pogue and T. P. Wright; second report on specific recommendations for changes to be ready soon.......Page 16

Newest Orders for Airliners Put Backlog at \$100 Million National reports contract for 16 Curtiss-Wright



Crash truck ... ladies' size

Scooters, "mamod" by women, rush to fires at the fields and quietly small out litters with curbon disorde gas from Kildle extinguishers. These nidept fine engines are highly namoverable, randly operated by women. And they'm with—to match the fast fee-killing effect of Kildle extinguishers.

Kildik extinguishers are used by sir fields on a wide variety of mobile equipment. They're carried on full-size exceptory tracks, two-wheeled tailers, jeeps, autorocycles. Kildic hand and wheeled portable extinnations arend track to no marker firm.

If you are planning fire protection for an airport—or for aircraft— Kidde's broad experience in aviation for fighting will be valuable to you. Our engineers are at your service... just drop us a line!



HE AVIATION NEWS

Washington Observer

SWPA STIMULD — Surgias. Was Propping Administration is vieratelly at a tracefull body. Educated approach are presented in the holis of policies previously set up, has tissee SWPA operated at the "pulsy level," for traceful actions are presented settings are presented extenses as the "pulsy level," for traceful actions are presented with the forthcoming of the law three-resis board is appointed—prebably after electrons.

ARMY'S LONG ARM—New board ign't the only trouble SWPA is having. Some of its personnel has been burrowed from Army. They

can't side in public partherings unless Army obit, since they are still in uniform and whatever they said would appear to represent Army viewpoint.

SUNPLUS MUDDLE-But SWPA treables tellsy are miner. The new legislation is called one of the worst maker bills over accord by

one is see were require can over passes by Congress. It must be seese-selled radiality unless that the second results of the congress of the party of the congress of the last of the congress of the poly. It has been difficult including man willing to thick thair reputation on the new heard, and parsented stown the line recognise the mean there andy too probable. Starm collars are indicated.

CONVERSION CREW COSTS—Heatincy of the Army in returning planes after allegedrons in the control of the control of the control of delate. Sees have held entertained crews inside, ing by, their wages largely wested, for as long as a meeth after usuffield. We Department aftive that these planes would theirly be delitated. Beginnes piece ever beyond conversals covers, become lines have set up treffe achedcies, girls every, operations personnel use reof indicated returns.

FEEDER PLANE SPECIFICATIONS — The sixplane that the feeder airflines are asking may not match the specifications released. Engages

the motion one specimental related. Explaints into weak fit like leading and taked Sengths perfocularly small have is be residited in obtain an economical plane. As Transport Association to consumed plane. As Transport Association specification for a piece property of the plane of the property of the plane of the property of the plane of the plane of the property of the plane. The plane is possible to the plane of the plane. The plane is not the plane of the plane.

has the transmission companies to the product Afficiace. Amountain it is along the many products and companies companies and companies companies and companies companies and companies a

DEMAND FOR TECHNICIANS—There may not be jobs enough for all technicity trained man available after the way. But one highly placed government afficial expresses the spinion that technicians will be in demand in several that technicians will be in demand in several thousand the property of the property

A mour of the Bell Annoonnet shouring the tail natelies of the thermal yet engines



AVIATION NEWS . October 2, 1866

AVIATION NEWS

MINIST DESIGNATION OF THE PERSONS ASSESSMENT Trembert Edit ... Private Flying Editor ANDREW B MANYO

Congany Inc. Wales 2nd Acres Corp. 27, 50

ON Co of Citifeness Owners for Bothy Berring Co , The - 6th

equipment and forthings. He suggested trained investigate such expertualties

ADVANCE PLANNING -- Too efficiels in of information some way contractors have of under termination. They are taking steps to encourage war contractors—without relative

MANY IN THE AIRCRAFT INDUSTRY feel aviation needs stranger and more experienced earplus representation, since planes will be the higgest single problem. An effect is being mode to obtain one of the board positions for an aircouft undustry representative. However, others arm for an researchable personnelson. Office of Wor Mobilization Director Syrees is remoted to look forceable on respond for sircroft resrecenterion, but is net committed.

the National Americk War Production Council has been considerably reduced, it does not appoor likely that the Council will wind up its

Washington Observer

ends. There is a possibility that Counsel brain Chamber. Many Council members feel, howclose the National Council offices before Ger-

MANUFACTURERS COUNCILS - The Aircreds Manufacturers Cornell division of the Chamber, representing the major aircraft compunies within the structure of the trade saveration already is functioning as Way Production Council artirities toper of Plans for the East Coast manufacturers council probably will be aggreeved before the end of the month and the aced fee a definite set-up in Washington will be the more urgent.

NEW SENATE AVIATION READ-IF the Democrats retain control of the Senate, which appears likely, Senator Josiah Bailey of North Curolina every take the lead in the aviotion conflor to current talk on Control 1911. Senster Bronett C. Clork, of Misseart, who braded the eviation cohesposittes, was defeated in the Missouri primary Whether Boiley, who takes a keen interest in evision mattern, will name binnelf as Clark's successor or deal with assotion as a committee of the whole appears to be

Fiboving the importance atefforts to buy new DC-I's transports from the inched to jet propulnus dovelopment to data, one but DC-Fx for future fallowry but the contracts are for JP . Alexander P de Frunk Tichenor, publisher, tells freends he will

Those future belooglers exceeding 300 mot-

probably will have jet-impelled rotors in which was either went along the copy trading edges or at outer time ... The W-11 arresult production



lerge correspond ... But officials of Convair are The Councilonas will be tested with various other power plants, including some with less he

than the engeral Wright matellations . Martin's Made: 202 topp-entire transport design is being considered carefully by several sighten, and the

Will Aviation Progress Slacken in Peacetime?



One enswers the AfRenespah "Stratelsh." Designed and built for research on bigh-altitude flying, its facilities are now devoted to mill tery reviseds. But after the way this stand recovering charaber will again take on the problems of commercial flying.



Mere: AlResearch specialists who perfected automatic exit flap controls ... lightweight interopolers ... anti-congraling oil coolers. From their "know-bose" will come new heat transfer and pressure control systems, and AiResearch "comfort-protection" for peacetime aircraft.

New OCS Regulation Designed To Speed Contract Termination

Office headed by R. H. Hinckley gives contractor chance to buy government-owned equipment in his plant or have it removed within 60 days, except when necessary for other war purposes By SCOTT HERSHEY

A fourth step has been taken by resulting at part from the unesseen the Office of Contract Settlement deplot bullegane of the industry described to speed settlement of terminated war contracts but ac-

Latest residution-No. 4-survey by the office bracket by Bohert H epocturety either to key the eyeplant or have it removed within 60 days after request for respect. except when accounty for other

pos, of course settle contracts Con-The War Contract Settlement

industry representatives attended manation officers have come annuwith the definite impression than terminations are not bandled in Dover-All Settlements-The nig-

denents which will eliminate decastellustion by a period of acobstructions. The industry landers riven termination officers who are which the refusity is not in a po-

this situation, since it takes time for orderly domobilization-the and the inevelable shrinkage in the nents maney, overhead costs which When the industry was called on and which must be considered a part of costs rust as those as getine, paper work was secondary Problem of Afministration-The and rendering was north. The indietry "negotiated" into war proministration rather than legisladuction, in a manner of speaking, of termination officers, property accountability officers and over-* Coppeny Programe—It has been with a different function begins other two It is the opinion of most undustry

lenders that the disposal problem White top-side of the Army is runs immediately into how to esti-



BRITISH TRY NEW LIAISON SHIP-This new high uring mercolane, such a four-culinder, heracestally exposed ser-cooled engine (pusher), and fully slotted and fapored weaps. has been test-flowy in Sevien but Army officials have decided not to

has developed for planes of war. where Controlled Six Sans Die Jeh'

Another the ArResearch Wind Torond, Thus

too will return to rescribes recircle helpfur

eclass such problems as the adoptation for to-

secured from elelinose of the same interreal.

ing and oil cooling systems that AiResearch

THE GAPRETT CORPORATION

AVIATION NEWS . October 9, 1944

AVIATION NEWS . October 5, 1945

male the value of the process in- chambers where its temperature is no book value, and on fireshed

year same Works son. The Year

More Data Released On New Jet Plane

contained unit with only one mov-

brethers' formal statement Aur. 4. Electric for the Bell Pull Airaremos from the British Whattle day

fore the Polyers can make anyb When the set plane it in full chapery, materials and other enumerat in large volume With causing automobile and nothern-Florition rades interference and principles to keep their guest labor cratmy withrut longe scale unera-Preser developed by the set en-

face them in entering the automoaccoraft competer. Detroit aboreand "Wisher Moon Car Co." under mobiles and any and all automo-

Because the thrust is newbared

his operative the P-50 years so

The Appropriat's speed is rated at "gwer 400 mob " It has exectlent performance at high altitudes.

Fishers May Acquire

consider buying plane factory to

The possible intention of Figher

May Acquire U. 8 -Owned Pleas

ofseture and in that marrier cir-

IIS Owned Plant

b Bold GN Steck-The brothers

of Fisher Body as long to their extend back to 1919, but in their Angust statement they said they

Body Division, and Alfred Father

Otto R. Stocke Dies Otto E. Stocke, assistant to the

in 1903 or assistant ground man-Donnetberg, lee, in Infrarapolia. Sterier west to Nashville in May. -There is some conjecture that Valtee Aircraft, Stocke continued

Immediate Provisional Routes Prime Aim of World Air Talks

Agenda lists wide range of subjects, including establishment of transport service during transitional period, and discussions designed to lay groundwork for multilateral aviation

visional world air routes and sera transitional period and estabk Sabireta Covered.... Des sould mon-traffic aton, application of cabotage, use of public aurocrts

> British Conference A Sesub Correcewealth Air Conference is to be held be held in the United States starting Nov 1

waved and planned not only for the remander of the war. It was understood that no

Immediate establishment of pro-It is planned now to relect a opennities on air transport to serve

> and selved by standards and proceside, including ground markings. requirements of accoraft, resistingand exchange of meteorological information, lightooks and mana-

committees probably will serve b Multilateral Convention-Overagronauteal body as may be

SKY HOOK' DROPS CARGO

as attached a scient of trooden framework covered by anylana under test by Air Technical Ser-

Hammer Field Cost mer Field, 1,562-sers AAF instal-645,999 to date: Col. Robert C was the work of other committees beary nerwood four miles of payed taxiways and 63,000 square \$66 buildings, 18 billes of proved etreets and 95,790 source feet-of 171,000 miless of meeting in ed-

dition, the field has become and barrious renses emounting to

B-24 Salvage Yields Few Surplus Ideas

Tenning down of Liberator to P Solution Still Saught-The disin Washington have been freetful tallining any policy that might be

Conscious of those who have Samles War Property Administrabelief that economical use can be terial such as radio, instruments



will exact the cost of disassembly. The recole of the except will not

ion is that it sught be deficult to

AIRBORNE COMMAND IN GLIDER MANEUVERS:

week. Working with Troop Corrier Command planes and arrant the glider injustry and paratroops macted mass obtack, aming approximateby \$ 000 men. 250 obders. 255 tremered planes, further developme airs. burns tortics already excessfully used in Kyroneou and CRI compat to proper for additional alider forces. Bolous at Lawrindown-Nazion Army Air Bure, nearby, other plater troops test glader "shicking" precodure, after moter landing in CG-4A glader. Without buous, allider



reality understand any rapiding of the places without an effort to obcost more than \$200,990 fully the plane. Many of those who have

concernable uses has not been \$Uses Suggested-An indication of the theater of those who exarrived the duplity is found in the Madia erargement could be used

which could produce sels more fit-Freelages mucht be used as dip-Finstruments mirbt be used in PathSuder abiders, in given might landings, noted the way for received if carried to the ultimate would

> they have been fortery rebuiltand the history of the OX-5 compe-

gestions. To virtually every pea-

Sales of Surplus Army Trainers Moving into Heavier Categories

More than 400 light craft already sold, bringing total disposals to 5.500 planes; best of small ships are already taken

have been sold though Defense sales to approximately 5.500, the volume of plane movement is slow-The proportion of bid invitations is regiment to heavier trainers. langely West UPW-7a Resa PTfor bids recently have been one

Haward DGA+10, a Lockhood DC+ 16) and a Bron 5TA I A Sample List-Sampling of re-Army 10 for the Name and 13 for PT-22's: 66 Ware UPP-1's: 63 Printing PT-19-A's: 140 Accords Most of the beavy types are

programataly 8 200 Army planes dea result, it may be expected that arrive sales will dwindle carekiy and lifewise the percentage of re-Other factors are entering into

· Continued pertrictions on fixing in the coastal sections keeps closed

a Hurb refers for light places see-· Renewal in several months of civiban production by lightplane makers, which will obsolete most

P. Trunsports Avadable in transport types under allocation are a Asseraft Dayson of DPC at 1818. Studens, Aven Asses, Princhild

twin-engine advanced trainer. The Asson, Census and Faircbold use in this country. The Musicon is newtor to the Lockhood 14, and

als. One was assigned to Presifect Roosevelt when he first took office Pan American had two Wrigher, Jr., the Vanderhills, Standard Oil of N. J. Three were built between 1831 and 1838 The Boeseg, an AT-15, is the

miliac composed of representa-

tives of the State, War, Newy and

CAB, SFC, War Production Board

Piper Gliders Thirty surplus Piper TG-8 truning eligers have been offreed for bala, with no cetting price set, by Defense Plant

sion of the Prper "Cab" plane with engine and engine mounts while it is nossible to reconrecommends that they can be salveged for space wings, advanta tiren tari nordariti, ida

been used at Wright Field for test One PBY has been sold to Icelandic Airways It had been used the Coust Guird, one for the Arhas Robbus Basseron Co. DEC orb. sidary, in Braul. Heads Pern Mission

Appointment of Maj Gen. Ross E. Rowell, a Marine aviator, to Fleet headquarters at Pearl Harbor where Gen. Rowell has been commandent peneral of first Me-

Act on Surplus Transports

Proctive lasts for regrolus trans- X. Street, N. W., Washinston, 25 norte on the basis of analysis D. C. and from foreign users to William W. Britscherhoff, Temp "U" Building, Washington 55 port-type photos of mere than 5,009 pounds gross weight. Civil Arrenautics Board is con-. Name, address, ownership, basis sulting with the domestic disposal These lats will be combined with fall particulars as to preferred type of engine and similar

· Statement of use of new equip-

· Description of secretical and rauntenance facilities

Reconversion Bill Passed But Vital Problems Still Remain Unanswered

Action fails by far to close issue of industrial reconvenion observers declare, although admining that measure does much to clear up government's plan for demobilization.

The Reconversion Rell became a will be placed jets effect on Vall. President in signing the measure | Bluerous for V-E Day-Knur's fasted by far to close the much- bluencest for V-E Day caused lettle discussed incre of industrial recon- surprise, since he had enried made syrsion Still unanymound are

How will it much with the mechinery how being set up in W73 > Who will head the agency and beversion of the aircraft, automobile, What additional legislation is needed now, or will be needed later to give the measure what obvisions become source

President Reservit called full ef-Actually, the ball does reach to was marged with the new reconclear to the Generalism's plan version agency, is now definitely and White House acceptance of the picture. Although Brown has curs ruide to demobilization. This knowledge, together with WPB's Charman J A Krue's blasungt was first unrolled to industry dres-

WFB will continue to be the adtery while WPB will to a large converting reductry. This means



those pecusiary to guarantee the Man Shaws Flight Restriction Still under restriction by ignest or-So for an possible, radgatry must own competitive standings WPB

Develor Haveld D. Swith, or OPA P"Burnen Aspect" Factor - The possibilities of reconversion legiselection are good. Regardless of the environce of the election, presties-sizes the term of office in minimum of two years-but if employees under unemployment special Whether or not troop One thang or certain and that in of President Bossevell is re-elect-

AVIATION CALENDAR 64. St. - Sylva Totals Combox.

Office of War Mabilization, which

- the St. Named Step Adopt Physics for H.-lostbase of Accounted Sensor, Normal Air Transport Medley, Station Shirt, Washington
- 1946-Wellman Association of Etc. New 22 III-Dickleral Cilcle of Demonite Aviso-
- Dec 57-Secret Appel Nother Aviation Springers and Suralantesis Associa-tion Jefferen Reed St. Lean, Mr.
 - cunce of White House statements AVIATION NEWS . October 9, 1946

Federal Takes Over Dominion Air Job

established in 1940 to coordinate Augs bomber tramers in Cazada. is reported to have taken over the functions of the strengt produch Trolper Penersen Neur Correla.

for the masy. The staff of the airrestreet of maritans and supply to have a tenne ferred based to be Ted templated at this time at Victory

ter borebers, or at do Havilland cusyroment holds a large interest.

New Plane Gunsights vices which automatically lead enemy planes traveling at more than 900 mah, at ranges of more than 400 yards and at higher an-

man production soughly by Benday Aventure's Ecline-Proper donis the American version of the

Departies Supplied New Conpart using the given build are readjustments. They first turn a

Thomas A. Dicks Dies Sinadard Propeller Drymon, Unittive of England, he came to this country as a yeath, began work on



bollow-good popular blodes and by the War Marcovery Commun. in 1916 founded Ducky-Luttrell save Propelley Co. at Philippurch Later & Orders Required-course present the firm chanced its name to perclations require evidence of crstill later became afficient with Herted Airgraft as Hamalton Standcredited with probably the first drop-forged duralignan propeller blade design in 1921, and in 1928 low-steel black which is still in applications stress availability of

Ceilings Delay Plans On Post-War Output Place menticurum cold to Wasp Program WPH's supersteen that appli-

Some manufacturers of light arecraft age not enthumants; about that applications be filed for crylisales on present cost structures im-

ready for subreission to War Man-Engreering & Research Cornmakers of the Erroupe Some up. other manufacturers are reperted to have talked with Williams tions rade. WPB, on the other hand, reports it bas had 12 or more chang of specific executives two Processing-WPB, whole it stall ready to process manufacturers an est persible time with certain manufacture Areney spokespen ray all centrols of materials man not be relaxed on the fall of Ger-

many and that L-48 orders will still be necessary then to obtain needed supplies Applications, says Richard S. Perkins devely director of the WPR for the former Awardt Production Board, should employing WASPS and their record of skill teriors ar possible to show they versatility and lavalty" and added can men their plants without some that "they have done outstanding critical labor. Great detral appears work for the AAF, even exceeding needed on this phase, because apour expectations when the proplinations must be opproved also gram was begun in 1942 "

Effects are being made to relace metted to maintain the financial

puntion of the company applying cerous be filed for civilian pro- To End Dec. 20 and Dec. 21 which means the end of war service for approximately

.000 WASPS, including the final Gen M M Arneld appounded Nine Calegory Baringson, or .. that vales there are unexpected and much higher combat losses. One application, however, is re-AAF will insulivate the WASPS the AAT a few weeks ago, rigard Meta Jananelma Corbrane. WASP director, recommendant chades that possibility cordian nilsts were available on

teresis, including Miss Cocherne's report, were made to review it. but to no avad WASPS have flown virtually all rose of surcraft in diversified dames of work and uding ferryme. and by night. They volunteered in order to release, and not to reh Arnold Pays Tribute-Gen Av.

New Classification For Mechanics Asked

Proposed CAR changes designed to meet needs of small operators. New charifortions for mechanics' certificates designed to meet Board An earlier proposed re-

visce was generally desproved 5,000 normals or less, and heavy hght engines, of 500 hp or less.

chafter may be elimble for cortifcutorory racing molecular rayers of light or heavy air frames or light or heavy engines, and as a specialist in propellers, metro ments or rades. Writers any of ones in the work and decorstrotes fitness for the rating He given by a CAA representative rosu director, points out that the

needs of the unbroduct mechanic make inspection and roturn aircraft to service after musor renair. the proper category rating Such authorization beretatore The revision also permits the first class rescharge with specific ac-

British Order More Air Training Curbs

RCAF consulidares several corre effected in the British Coremonwealth Air Training Plan started in 1940 and the Revel Constur-Air Force, which has been overwithin the present, anapparers consolidation of a register of training commands. In addition, four mem-

The sar training plan graduated its 100,000th air cow man last New Zeeland Curb-31 to the closed further that a British request has been next to New Zone

fellows a recent change in plums curtailing air personnel sent to Canada under the Empire as -spence educantrature and greated nersomel in New Zealand will became unemployed or shifted to other jobs us a result of the curtosiment New Air Consessed-in Canada.

on this route from Edmonton to There has been no mention in ments of operations on the West Coast, and creation of Northwest

ATS Outlines Plan For Postwar Training Pulet territory of 166,000 Ameri-

can youthe yearly as murrance of continuing Assertion surpower. was recommended last week at prendent of Aeronautical Transcrip Society, representing civilian Highschools which serve 1939 have done all propery that training Speaking before the Georgia Awation Chase, County recornmended that the post-war flicht

CAA and coordinated with six tively transmitted to Congress in valume proportionate to its real b Marit Chairs... Additional train. ces to complete the 190,000 would a mass training group of 1,000,000 or more youths between 17 and 25. On Research Funds untary or compulsory

ter the war, unless a continuous feet, Coumbs pointed out that an

Snags Delay CAA's 10-Year Port Plan

office dollar tea-year agreet building occurrent, held up the prepentation of the program to neeted time. When the CAA report was taken under review by the Bureau of the Budget. The Aleska Airway route ECAP -Sension of the Mouse followers: order. The Berest is tharned with residence sent conduct of a government agency to Congress

b Economy-Traditional relactance of Congress to spend money in a post-way period leems as a major obstacle farther alone in the year possi's such Ultimate fate of the interest shown in its enactment by the follow back home and their expressions to their Senators and Representatives to Commun. That begar fown interest exuats is indicated by the enthunant

over the country for local aveation.

proports. Whether it can be effec-

Canada's Plants Shy compete with American and British manufacturers

Smith added that oppvernor their counterparts in Canada, and carried syrred profits command ione and British recognizes have accumulated to provide for uset. h Post Was Plant What her own under consideration and in the formatree stage which Smith did not duclose in his comments on the

Bailey Acts to Spur Air Policy Program

With a year to hastegony a decleration of policy on part-war inornaneroe Committee, Sen. Jouan. up a report which will be presented to the Senate before the present Congress afjectes at the Charges Proposed-Balley called which is headed by Sen. Bearett

PRIVATE FIVING

ACCA Council Asks Further Easing Of Personal Flying Regulations

Genting and Morson present statement of policy on freedom of personal flicht to Burden, Postar and T. P. Wright: second retors on specific recommendations for changes to be ready in few weeks

By ALEXANDER M-SCREEN

tion in Period regulations govern- economic importance to that of the automobile. Distinction between flying for pleasure and bungers, nustice Board, as being urged by the Personal Aircraft Council of red-tane custractions harmonisms make air spaces available to all

A thoughtful coneral outroom of #Statement of Congress of system to persenter travel and to encourage individuals in using personal sig-Secretary of Commerce, L. Welch. Pagas, CAB charman, and T.P. T. Gruting, Jr., chairman, and in fight in correction with may John E. P. Morgen, manager, of crime is a Federal criminal official-Now Report Persaged - Mary of now type aur traffic from your specific suprestions for repleasing public funds unless mutable siterrecognised perform a flow marrier & Statement proposetted nectorations

private conveyance to the ordinary tional guide for users of personal

first "Statement of Policy on Proc- ownership and operation of auto-Correlmentor CAB on the so-Derlaration that the right to plice proach it already has made to the problem, the storement questions whether new rules in preparation

* Private Fixing Promotion -- Post, as not to obstruct free flow of -ra-Conceding that the Intent of While in the past, private frage 1966ay regulations now existing to has been overstayed "universor- right, and that poleta should not no

Change of Viewnoine Joseph T. Gruting, Jr., chag-

facilities within their state, to make personal found more strendt, rather than "wast" rego-

stions. It posts out the "solone

ewners would be ended for exlows with respect to ownership relatively as easy to obtain as an the student passes a symple and these facts. Also, it is mangested give mitractice, although piles

sional or commercial license b Rules & Sontofeston of traffic rules as surred, rechaired corplaint strance (crys) strance

and control money and unreruimportant future rule may be as "Practices" to serve as an educa- lated arrange (all the runt); Elevating civil stream so the Bodefining control xxxxx and ax- Developed for Lightplanes

tending them by including aprecent relea with "Stay sufficient,"

destriction system introducing when firing a radio-equipped

Mirworthisess - Redrafting of and production practice. Present out of proportion to actual air Summerinar, the statement where it imposes energies burdens hampering the public right to fly

Port Zoning Talks

Only manor technical changes

were adopted in the model state in phraseology conferent tranpowed the crustal law, first draftof in 1941 by NIMLO and CAA. The law will be presented for conmodel going law in esorge, with

Variable Pitch Propellers

Several plants producing or working on models to be offered in post-war market for use on smaller asscraft

A porliminary survey by Arta- milithes, and to mount the one that number of manufacturers have variable pitch propellers for highlito Army and Navy to improve affi-

private available. Mass-produced variable pitch aleserews have seal, hydraniae, electrons) and suin the Patent Office Mest serbert. ties agree that warrable petch is, or

be doze, low patch for short flights out of restricted fields; higher pinches for long cruses, etc. Ansition v. p. smit, which can be changed in the niz. After that come combenations of hand and automatic control; then fully su-

PRoptlett Hayward Division, Konpeys Co., Baltimore, appears to bracket. Extensive portions of the voted to this possect. Company Firsty Methods Euro-Cre way Incomity of the R. R. "Actonto get veriable petch in to own matie"-advertised as "The scatwo or more propellers of different peller with a brain for tomorrow's



place"-has wen the admiration selling on the blade and the centhe destred charge in patch for varying conditions of flight. Postcontinuous state of balance A differential between the driving

tailing fourn and function of here all personal auplanes, except possibly those is the hebtest weight category, will be equipped with v. p. propellers, for economy neogressively reduced to minor considerations with relation to the entire plane. They realize, too, that different types will come into cellers of the Astronomy two or ray that completely automatic that have flight engineers incline to fewer exactivery hand controls nati, has under development both ground-adjustable and cockets-

Piper's Forecase vote from well be low-wing

Piper, president Puer Afecraft Corp. believes He told Indianapolis newsmen reassoners with a shift which polis Real Estate Board, Piper ports in marriabilities from Acramatic' Propeller

b Brook Aircraft Corp. is in production of the Robey, or Beech however, officials say they believe

tour palets need not be restricted as to type of v. p. unit, because ris one is weach surveley than annoyeehale enorshift. Reech sava the continuously variable with urup is made efficient and uneful than the two-position will, became two-position control effictively selves only takeoff and level crains conditions and not h Freedram Baraham Enrisonias

controlled possellers for post-war married. The coverd-adjustable ofete, and the evekual controllishie. shoot 60 pounds. Pre-way zeros of the adjustable was \$71; price of

> G. Armenley, general manager of two years. He resorts having rein excess of a million dollars, for his unit down to \$135 in the near fature. He did not say what the h Supposed to Brothers Tirtles Do correct to receive a reconnection for

propeller industry, including Annester, Beech-Rober, Gleen Stear-

Durfin-Wright Corp., Buffalo, ested in low power v. p peopellers, is donte some development work.

American Propeller Corn., 1333 Alaxin Road, Teledo (melvere of

Hartrell Propeller Co. Pipus. Ohio, which has been making fixed prich wood propellers space

b Piner Dushtful-Wile it is sunerally agreed that medium and question whether the lightest calegery of explanes will derive much hannell from them Piner in having the improved takeoff which a controllable propeller

Detroit Port Study

Planning for an international peeds within a \$4-mile redice of the area is the assignment of a Detroit and Wayne County authorities to coordinate printion planning in



Caught in the Widow's Web . . .

Song ato the reky blockness, the P 61 Northrep Slock Widow favores out the anemy with on electronic are and delivery a terrent

of revenue and machine our fire As below as a line townber, but with the mades of a marie most finites that's the "Marie Wiston"



A-67 uses Curtis Sectric Propeders





Mark of Dependability

Shield of Protection

Breare Badle tanition Shipiding Guards Radio Communications Applied Natural and Manageds interference

skill that has come into curry Breton







Radio Institut and Applica

Elementer and Auchier Tale

Concrete Units May plum. Washington officials say In Cut Hangar Costs

pending on local labor and makerisk costs. The association, howown indicates that one of the mately \$500 Assertant a gold husber cost Spare of \$1,000 for a jour-place the monthly hanger for now

are subjected to hazards of close

stacking and frequest moving of

h Individual Boors-Place call for

Provinced construction secretarian 8300 to \$250 per place would porting it. However, it is reachly offset any advantages of a lighter restarch a, wiects of the Portland

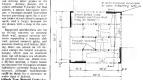
CAA surfacers Within a short other structures. Already under

time the plant are to be raids ater interested Representatives rever and that the association is

Oakland Port Outlay The Oakland, Celif. Board of \$00,000,000 will be spent for any provements at Oaldand Managed



A square 6-store hanger for hobbeloner is one of Poroland Coment Asso-Eleration drawing above, and floorplan below, show mem features of design. Other plans suggest hamapea-skeped buildings, and long years of T-hongorn. By placing agrang hangars corner to corner, they can





Super Planes FLYINGHORSEPOWER

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ment. \$2,000,000 in research during the past two years alone.

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construction are improvement Acres Other pasterts are being

CAA Maps Air Study For High Schools

A program of general aviation reassafecturers and others con-Marcularburyr inforest lies to the reates that years than helf of the efferent some type of syntage, gourse. Chaef difficulties are lack

Parke Leaves Port For Ercoupe Sales

Vote on Gas Tax

evention random and according and bother Operator Moves-Perks waves rached as a state aurocal ave- alone at the field for some time. grying free lessens on the two-obs-A pell by a Managapella newspaper probable that only 24 per- founder and veteran essenter of cent of the people of the state

for it: 8 percent say they will not. there after Aca. I

gers, with 46-door electrically risk rought by shiplings, and said magazenere equipment to make

War Pilots Must Know Civil Rules

by the Civil Accordates Adminis-Some of the reports involve onvate plane owners to fly their knowledge of the slower, lower-Moneyters and Owners Warned-CAA revelations designed to cover

has not flown the same type of he is required to make five take-

Topologia, Kanga City, East Decemental Operation-is re-

ton examplation on Civil Air Been discharge, and that he submit a

FIBERGLAS* XM-PF Aircraft Insulation

Oak by sering bedien meintour and flexing this new involuting exp. is from other insulations, also why every come available has been going into E. S. Military Aircraft Fiberelys XM-PF laculation is surfe up of feest, moneyers material -class in the form of very free

fibers housed into a flexible man form It is ever to booth and labricate. It services no stricking or felling to majetain its form and tion. And it would be little as viding an options of isostotics



are of receivery radar estimate bands conditions.

factor of over 30 as occustical in-

This, combined with its light wearly

and dumbility has made it ideal for

the acceptical prestures of pilote'.

radio permitter' and parcenters'

stade the mentation of hotory ducts

and fittings on strengt, also the in-

relation of curren and tenon trans-

port consustances. Being made of

place the Above will not not us

learn. Farrally incorrient this com-

bifor absorbs a perficulty servent-

competences in sirror.











FIBERGLAS MARASIS

Aviation is unfortunate in its

That is the reason for the vadanted expressions "in body

craft one has in mand. These should be equivalent to "ear"

"truck," "bus," on the rund, Tiper," on the water

scription names - "aupork

has "fighter" and "bomter."

Perks Atrendt Sales and Ser-

The ten-year lease gives Purks

Douglas E. Fleisher has been

named vice-president and general

ete, for lendlar spens, is interested in water-

THE AIR WAR

COMMENTARY

Germans Hold Temporary Edge In First Jet-Propelled Fighters

Craft reported capable of over 550 mph., with fast climb, our run fastust Allied planes but Mastergs, Lightnings and Thosderholts, with superior maneuverability, have shot down some.

that type of apprecia The first American set-occapiled fighter, the dividends than in enabling the Whittle-demand General Electric series of 1/p lighters and hawshees reported under development by were pul into action. In 1908, for cauragle, Germany's aeronautical + Characteristics of German Medknown of the Memerschwatt 163 1999 the Near were boarting that resited proposition unit, which error in \$966, if required. It is now known that both the Beyersche round reported as cave 550 week. Meteron Works (BMW) and the

ing Mesperichtsell, Bearied and Addison in Early 1844 on Sure enough, trul corrections of some of The ME-SSI is a lot tob, not a rocket, with two units, twin tail these appraint were observed by end a more conventional appearappe. Speed may be slightly less managerability are reported as

ceeded far enough to commit some availant. The 960 and the someto be from renewed and deter-It is probably from savilar con- Airborne Pres and Cons-With-

German robot bombs, white con- the Neder Run, caused a tem- Field, Va.

tion. The advantage and legata-"vertical anythornest" the great element of surprise ean becompletely equipped airborns

energy-that is real what they strongly supported by air and from yout. It should be remembered they constitute but one aspect of b Objectives in the Balland Opera-American 101st and 53nd authoras breach of the Rhine) and the Britfirst two surheads stuck, Desuppry's Scoon British Army made a

Heads B-25 Wing Best Gen Rebyet D. Knoon has

has been disclosed. When the Twelfth Bomber Command was director of training at Beooks siderations that the British have drawnl of remnonts of the herner. Field and Kelly Field and served as executive offser of the first igt-propelled fighters around the from Arobers on the other side of hemberdment wing at Langbey

Sensenich Replacement Propeller List For Military Airplanes

ANNAN ANNA	Some Senera-begripped Linear, Tenung and Eikly Cage stephane originally purchased by the seneral linear hore shouly here said in commercial operators and prevain			there. There is every advision that more will be released in the new datase. This first is published for therem, release of the purchase of he farehands ordering replacement propellers.		
	MORN 13A, B, C, 5, 7, 7	Entering APRIL	A 62	77	ANT SERVIN ASSOCIATION	79C42, 72C44
Assess	130	Frontidia	4 AC I/Y B2	45	72542 72544	73543, 72944 73913, 72944
Assesse	130, *	Stomwall	0 143 8 3	43	79/194 75/334	700724, 700724 700724, 700724
Assess	PF-93	Continuent	8 420 S	299	43/05/81	90(A79
boning	PERS N, D, HSS-J	Sycamolog	8 660 TI	250	440m00	PRAME, PRAM
losing	PT 17, A. H95-0	Confinential	8 670 5	290	430765	TRANSA STAA
Comm	UC 71	Jacobs	L 464. 0	223	75550 4383658 44826408	POLAST POLAST POLAST
feirdid	27-18A, B	Banger	6 440 CZ	189	430 5729 438 5721 438 573 14 438 584 45 440 586 7 446 586 74	RABAT RABAT RABAT RABAT RABAT
		Anger				
Zulvalde						
Februhid	DC 496	tanger	6 440 C 5	190	86A854	24454 24444
		Bengar				
					See Fabrable PT 188.	
Heward	F9-81	Contrastol	10705	220	43929161	101421
See:	14 4 5 5	Continental	A 13	63	1202007	72042
Piper	140	frenktie	4 AC 176 B 2	65	72742 72744	72542 72543
Figure	LAE, P	Contractor	A 73	79	70840 70843	70043, 70044 70043, 70044
Fow	149	Ap-soming	GQ 148 C3	7.5	78(352	78(Y92
tym	mas	Kante	*54	166	FORMSPROM FORMSPROM ADD 3333 ADC 3335A ADC 3425	PERABS, TORN SERVICE, FORM SERVICE, SORM SERVICE, FORM SERVICE, FORM FORMAS, FORM FORMAS, FORM
Dr. Lawly	P1-29	Confinential	8 479 5	320	43879197	90LA79
Stinere	и	Lycaming	0.4331	199	131738 13123447 44035085 4403791	150127 1507427 1507427
Shrunn	UA, I	Frendrie	4 AC 199 E 2	90	720749	732545, 73054
Tayloruselt Tayloruselt	130, F, J	Ereliandel lycomog	0 145 k 2	45	79,Y34	73013, 73044 70016, 70016
Toplorereb	13606	Provide	4 AC 179 8 2	65	700108 73143 72744	79(134, 70(19) 73143, 73144 73143, 73144

SINSHINGS AROTHES, Learney, Pr. - educate in Learney

AIRCRAFT PRODUCTION

New Flaps Control P-38 in Dives, To Speed Progress of Future Ships Hispord wine device developed by Lockheed and AAF solves

problems of compressibility for Liektwises; being rested on other warnispes A significant development in not for a year or so after produc-

scredamentes is reported by Lock. heed Aircraft sexecuts in the problem of compressibility, the barrier to ampliance reaching the More than three years of research by Lockheed and the AAF

Compressibility will be an unportant factor in the still faster politary planes to come but Lookprinciples established by their dive fup, although these privil-ples will be applied by different

h Attached to Wine-Two hinged square, are attached to the weder control wheel There day form Lockbood screening report that Lighteney to flive at tremendous After a flow of 35,000 feet, the Levels of within 3,000 to 5,000 feet

for months and "they kets" are on route to combet the sters for reeds Phenoperon-Compressibility is

bulence causes extreme buffeting control and a crash. The difficulfeting is set up in the wing itcompressible At appearance speeds. the air flow acts like air, com- operation to prevent intervious

pressure is off. Between these two

Stabilizer - Lockheed reports range of today's saveraft. There stabilise the air's tendency to flac-

Warn retracted, the dire fluor do not materially reduce its dive

Packard Reconversion Plans for reconverting Puckard the 110,000 summer foot new plats



Lockberd Gains Over Conspossibility: Days from developed by Lock heed encouvers control the fire of our arress the arress to belo defect control wheel Compressibility has been the burrier to avadence reachiso the speed of sound and so for as the P-32 is concerned. Lookheed the first to executive it, although traffering which occurs during high stead diver-



NEW STANDARDS (SIV AIR S) TRANSPORTATION

1901 - Piret standards for "thring machines" were set by the Wright hapthers at Kitty Henry when their fractle binlane stayed in the air for twelve long seconds and few the unbehanable dutages of 120 feet



neurous which has reached a new neak in Lockheed's Constellation. After the war, when it firs the aidines of the world, the new sundands

set by the Constellation will help make all countries neighbors.

Town connector, continent spanner and empire blazer, it not only shrinks anace and time, but beings new safety, comfort and economy to sir travel.

LEADERSHIP IN PERFORMANCE

Highest cruising speed of way transport - Longast runps of any transport * Grantost load-carrying ability of any transport * Highest rate of slimh of any transport * And those

performances make the Constellation the safest of any transport



O. Was special equipment used on the Controllation to not

-LRK.Mobile

- A. No It was a productor line Contribution from at making
- O Could the Convellation upon a paragraph amount -5 K. Web Gr. Ma.
- O. May for our the Constitution for a non-use?
- A. Acoud from on still sent that it will you a constant with
- Q. What does cabes prescribation meta? -2.5, Boston A. It mean mater traceper confert "Precoduction" messe

Send to your outstook Address Lockbard Arrests

FOR DEPENDABILITY IN PAIGHT

LOOK TO Lockheed FOR LEADERSHIP

Superplane Development, Problems , W. L. Wooder, of North Association Discussed by SAE at Los Angeles

Post-war aviation outlook and studies made to increase effectiveness and safety of projected craft are main topics at National Accordances Meeting

Projected asserall development eight-wheel articulated undersusand means of overrooming prob- riago units. Dual or tandem discussion at the National Agro-Automotive Engineers at Los Au-

Manly Nedal Awarded - Tot Manly Memorial Medal, awarded sended to John Otto Almen of Detrait, based on his technical paper.

for hydror servicing and must be 5.000 hours without bears out of service or grounded for repairs mad 200,000- to 300,000-pound

er planes were the main subject of appens promising for today's planes of 120,000 maunds rest

> Figure and Pangue-Engageanalysis of the affect of second turn) materials and types of con-

Food E. Weigle, developer of the un alases at low cost. They advelarger than an hours at any type material, labor and tooling held to being replaced in retooling for

amprovements in the seline sys-

J II Browster III, of United Airtruft Carp, outlined processes of

planes operating in different chof oversituation of these new supers - Wesley S. Erwin, of General Motors Curp, described a device which accurately and rapedly

Henry Dreytus, industrial de-

Last A-29 Produced Doorles Asteroft Co. has pro-Santa Monaca plant-the 7,095th of

cuted dest-conscious design engi- + Retockne-in the wake of the first A-19, mrs and fatures are

mean a reduction of \$2 in selling

Get flexible lighting

for each employee...each job... with DAZOR Floating LAMPS



MORE PRODUCTION Both machine and band dynamics on a feater, more recently, with santonical legisland lighting Dears Storten Large



help to shock auditable of the course



Employees differ . . . and jobs differ . . . in their lighting needs. That, in a monbell, is the reason for the Doose Floating Lamp-the first lamp with complete lighting flexibility at the point of work. Lamp to the exact position desired, where it store per without fauraine. An endough belancing mechanism holds the laws arm at the place chosen . . . firmly . . . asspensically. At the left are repiral advantures of Dance illustra-

aution on machine tools, assemble lines, insuretion benches and drafting boards. To gauge these economies fully, get dealls from your experienced and cooperative Dusor-appointed distributor. If you'd like this 16 page de-'N't we'll send it promptly. 1 ... Done Monderseine Co. 4671

Cell year electrical wholeseld sensition or write as for the nemes of our distributors in your lecalty.

DAZOR Floating L

and INCANDESCENT AVIATION NEWS . October 5, 1944

Commercial Planes "Standardize" Props

Creft in almost every case reported using three-blade durabunit models, fighter and smaller in diameter than corresponding military variety.

corresponding milliony wresings The smaller propeller is noticeshie in the DC-4, for example, in

Lumbar Flow Airfoil-Arritte blades are also generally mearparalities the NACA hereinar-free level flight or crusing conditions

Norther Blades Used-Other reshave likewise selected Hamilton to reports. They include Consolsdeted Vulter's C-19, Martin's Model M-202, and Fairchild s new Mare than 20 other protected panomer and compa planes, still

10,000 Planes Set Up By Lockheed Unit

searbly division has completed more than 10 000 wenteres since it Since that time, plants in Scotland and western England have remnewhiel, repaired or modifier range than 10,000 planes of rearly 1916 to North American Mustowns. Republic Thunderbelts and Lockb Bribben Returns to U. S .- Doniel Bribbon plans to return to Eng-

Bell Ouits Air Post Ralph P. Bell, director-reneral of aircraft production as Canada Montreal, president and managing west to Ottawa in June, 1940, at



Photo shous the eshap saterior of Sthoraby R.E Arlieveter being high the Sikorsky Bridgenort plant. Photo shows large elemakes were and ride-bu-onte location of seats. Other picture left to right are Charles C. Thomas, chief engineer of the helicopter dynamics, R. A. DeViley, Technical Service Corenand, who has been to charge of AAF helicopter



AVIATION NEWS . Order A 1866

PERSONNEL



Taxas, As congranding general troopers, fir thorn, orliver unp-Has bandounciers are at

wantered on 1999 In 1860 he reasecond the Wright brought and war



NAVY'S BIG THREE PRESENT AWARD Dader Secretary of the Navy Ralah A. Bord, Secretary Jersey Foresoverest taken the Distinguished Cordigs Service Agend was made to

grees, a tarbine supercharger, the

comment of Wagels Field, realisting



grass and has written several fright

Cost C. L. Helber is the newly copurpled Navy Bureiu of Arionautroarea realiseme Cart C. M Hantur than where he sell be reamager of Helber took has fight tracking of

John M. Beardsire has been sained



ters. Later he was sugged chief of rector for Trunscontanental and



Your reply to this "personal" will be answered in person. A Supply Division representative will call on you and present the results of this company's 11 years of experience gained through constant contacts with dealers all over the country.

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volume-recommend merchandisting methods that will give you a valuable competitive edge in There is no charge for this

service. So just drop us a note today . . . and we'll soon be week. ing with you to increase your present profits and help you prepore to take full advantage of the bigger-than-ever opportunities that will come with peace.



M. W. Garry Ave.

Arm Resistances Corp., Bryan, Ohro, margar J. P. Jekesse, executive vice possiblet. J. E. Allen, assistant to the president, was elected a wicepresident. Johnson is in charge of

Charles L. Beard, vice-persident and secretary of Ball Agreedt Corp., has been with Bell mace 1895 in the tressurer, has been named a vicepresident of the corporation in change of ferencial affairs Sperry panel Bell last year after having





reas of its long-range planning committee, has been elected a vice-arresident. Karben is head of the medican in Detroit and has charge dope fucht test work and been a leasy point of milk-Bendix in 1942, Kneher was with tary success? Eager has now as-F. A. Dem, excessive secretary of the National Association of Suggesprogram at the new Otto Avadion

offer measurer of United's Person-Olio R. Steeke, 43, assistant divi-

of Cornolidated Valter Associati Curp., Trunton, N. J., is Leagand H. P. Kiolg. He was also elected a de-He become affiliated with Convoir

M. G. Lowman is the new radiatival Trees, Olive For the most two Brig. Gon. William W. Welsh har hern appealed constant chart of an staff for trusing, succeeding May Gee, Robert W. Harper, amagnet

erenness General Welsh was chief reard before taking over his new as-Willie F. Avery, numberal secretory of the R F Goodrich Ca., since 1836, was elected secretary of the



Officers of All American Avertion wanten, Del They are Hakov E. Basiny, president Harry S. Steinger wire-president, traffic, Charles W. ward E. Miner, Je, vice-president-

Austin M. Zemestrana, socretary are general counsel, Press. J Trelease, Je., annatual recretery, Master 5 Fries, assistant treasurer, and Wal-The election of officers by darceters was proceeded by a meeting at elected by stockhuklers Directors are Bucky, Charles F Banny W. hus, Mrs. Railred C. du Peel, and Charles W. Westl of Wilniggton.

Liesz, Col. Mart Estes of the Army sion of Pempl-



service. Cal. Estee had charge of PCA's reliant transport frames

ed advertising manager of the Complett was a vice-president of the Syan Asconnected Co. and an work in developing street fundamen vertexag agency until he pained Lockbrod in 1842. Complett has

been merages of the publications Rever B Smith him been appointed short menual of Lockbard Arrevall. he recent death of H C. Telenolity the recent court of the Co.

AVIATION NEWS . October 9, 1844

To the Airlines of the World

arrate — both rules and engineering — to our commercial six fire encountry mere - for the time and energy at our personnel will not then be as esturely devoted to the needs of the Argry and Navy Air Fures.

The Concernal ampliane of peace will be equipped with more new and custing electronic devices. These - together with higher feequency sudio construction and location environment - will demand absolutely efficient hielding of amotton and auditury electrical wirins. Warting research loto promote this efficiency in shielding. They are new, and will be in perce. available to the ser line operator.

You are the future of Asiation. Your task in wasting has been predictors. rince you have had so used to do, and so little new equipment with which to do it. With new opriguent—with an alreadyded posters public, your father boricons should be limitles. While we have tried to provide specialized service to you can during the war, when Prace cours, our engineers will go still further in individualized research to solve your specialized problems

Africa Court E Brown President







"Just whadda they mean IOO-OCTANE?"





line's restouere on demonsters or knockens. The first variable-compression testing engine

for decreasining axistion guadien's occusaiformia in 1926. Guartine was fed lose this earing alternatedly with a missage of two ticulds called beganne (low anti-knock solved and incorrect Ohish and Jensele value). If the musting made the reating ongive knock with the same incomics as, for insurance a microspe of 25% beganning and 75% iso-course, its occurse pureber was 75. If it had muched the anti-knock performance of

ocure gooding.



relation environ are so south different that the old retire method won't work. So, Cal-Harris Research Conservation a substitute of Sundard of California, developed the appurapas vou see above. Denials are still secret, perfect 100 occurs excelled - and enabled our actingulars to unfeash new power for sixcraft engines. And, used in daily referery rese, ir helps loon the apality of Socretard Aviation Garalion doublet - the way fivers everywhere have learned so

AVIATION NEWS . October & 1944



FINANCIAL Broad Rise in Aircrafts Reflects

Underlying Strength of Industry Virtually entire his moves ahead for subtractial and sustained gains, spacked by \$50 million Develop neder

craft list from their low points of

las, Consultated-Vultre, Gruns

man, Lockberd, Martin, North American, Ecouble, Source and

sharpest apward moves in years. fore, the price of Douglas bounded I hat a back mark of \$355. Wrsecond 44 This recoverate on you 45 percent from the low of 41 colacy viewing the future of the reduring This department has ye. peatedly taken a opportunitie view harly in the light of low market prices in relation to underlying values (Eur Sert 18 1944 the remarkable strength in working ceretal nontrous per share, enpecially Douglas, were morel The Decides commercial orders. very much alive under peace-time conditions. In fact, it is now secepted in revisionable considers than

of war-time wakene Farther

the mortems of markes plants and the hasto financial position of the

Finite-The accompanying table

artolace and is sensitive to our also out common share was post, war advoutments. While prof-

this year. The high mark, gencorded by Lockheed. From a law gum thus for of \$50 points or an Convair - Consolutated Vulter has established a net approvation.

their previous highs for the year. Thu technical action is very encourseing to chartest and similar of the spectacolar lyne. This is no adverse reflection of the commences usuts have greater stability of to Republic Property less of 3th operations and have established Republic has vertually doubled as were of an investment standing. price to record the most impres-As a result these sames have reere worket performance serventcould reice declares in much bet-Nows for Sept. 10, 1946, this compage is in excellent figureral page tion, buying not working capital June 20, 1944. The company's war milifie demand and are now hecurrent surcraft rally well corry is Direction of Desiries has been subject to conjecture The progress of the wire, post-war converby still apother contender-Orum. non problems and a bost of other rean From a low of 11. Grumman hit 21% for the remarkable appreclation of same than 90 percent

ly liquidated in the marketplace.

Financial Report DESIRECANT INM MARKET ACTION

Piper Aircraft Corp. directors 12% cents a corumns shore way, Oct. 10. Davidends have been gold regularly on the preferred. As of Aug 31, there were 571,624 common outstanding and 17,144 preferred. The service inter in convertible into common at the rates of ten constant to one preferred.

AVIATION NEWS . October S. 1844

needs of the Pacific competers. A

PERSONAL PROPERTY AND ASS.

The Economic Reconstruction of Europe ____

FINE time is fast approaching when silled and enemy populations alike will demand a blueprint for the conservat reconstruction of Exercise. The neary plane following this World War well be wellton pascenneal, and by experts, at a series of continserse conferences, such as Bet Serings, Bretton Woods Dumberton Oaks and Ouebee, each treeme plans, the United States, as owner of more than half of the world's undustrial expects, controller of the only great credit seneryour, and possessor of the largest force of highly skilled techniques and manits industrial, financial, agricultural and labor leaders compet evede.

Just what is the needless which the world's brau-The best saleguard of peace is economic opportunity -- a good chance for all peoples to raise their stundard of living by their own instinuity, foresight

Frustrated and descripted secoles, who view the future with stissiving rather than hope, breed fanetical demographes who seek to divert nations from their ills and disappointments by promising military slory and conquests.

Consequently, an important step in building a The economic tradition of the Continent always

has been highly nationalistic. The national feeling superated by the first World War, and the polytical tions. This trend was accentuated by the depression and by the military plans of the Fascists and Natis. even if a blockade was imposed sours. The inevitable result of these influences was to carry selfsufficiency to trush extremes

Economic retroculum bolds down the stundard of living of Europe in two ways L. It provents the rise in most European countries of law-2 It operates against an efficient gaugnighted dyesses of labor, prevening nations from dong what each one do

Count marking parries must market from count reachine of which the United States has many and Europe few is the continuous strip steel mill. At the change is more than a quarter of a mile leng and the relatingers cost of the reall is almost \$25,000,000. Only

The wasteful geographical distribution of production is shown by the agricultural policies of Italy, In the 1930's, when land sold for less than 6¢ a lb. to the United States at cost 324 a lb. to Germany. In Italy and Germany imports of wheat were berned and its production at home was heavily subsidiard By the middle of the 1997s, wheat sold for \$1.55 s bushel in France, \$1.97 m. Czechoslovnico, \$2.29 in

United States and the other efficient sends recducers and exporters (Canada, Australia and Argentina) were restrictive production and were unable to average more than about 75r a brashel for a freedom to trade not creatly different from what

unity and the large markets which go with it, effielect mass production will develop. With Europe receiving themp supplies of such stable foods as wheet, park, light and dried from from overseas. European farmers can proper by operablesy in producing fresh foods-butter, cheese, eggs, fruits, youtsblee Then European agriculture will be more prosper-

eur produzer its specialties, and eur aericulture (and that of the other event efficient combinationduring corretries on mally will have greatly an-With a chasper food supply for Europe - yet one vielding a better once for our arrivalture - Eurononcoally for agrarultural production will be re-

automatic processes European labor can produce reces steel sustainabiles formores absorbless and ing in coming decades, as the United States has

A rigge standard of living in Record will below AYLATION NEWS . Online S. 1944 commercian of electrical energy would be 125 mil-

How would a Europe which possesses economic unity appear to us on this side of the Atlantic? It would be a promerous Europe that would have be dependent upon overseas supplies for vital agricultural staples. This dependence upon overseas sericultural surplies would be creetest for industrial Germany. Some neonle believe that a steams Europe would be a threat to world peace. More it would have found a way to achieve a many standard of living, Furthermore, a prosperous Europe would, committable, be a described Europe because although the European infrutrial worker would use more and cheeper food, he would have it only as long as he consistent the peace. A prosperous Europe would be of special advan-

The British policy of buying agricultural staples from abroad, for exemple, made her, a nation of cely 45,600,000, the purchaser, in 1907, of \$250,-202,000 of all kinds of acticultural products from the United Status. In the same your the rest of Europe (exclusive of Bussia), with a population of 325,000,000 parchased only \$300,000,000 of our agricultural products. But with more sanable group!ration of its periculture. Europe could be expected to have more than one Milion dollars of accombined

pean industry will be Europe steel, For American Industry, there will be growing markets in Surone as industry excends. Experience

shows that the trade between different lookly volummurkets have been with its bornest convectors -Britain, Counds, Japen, France and Germany. Before the war, Europe, with two and one-half times the population of the United States, had poly If Europe (exclusive of Britain and Russia) were

automobiles. With normal deprecation this would ultimately mean 10,000,000 cars to be produced anreally to replace worn out cars. If one still wonders about the sumence massher of things Europe might unadage for kernelf, let been relevable the highway expenditures the filling and repair station haunesses that must be equipped and that would be required to make the automobiles

The resignation of these possibilities throughout the world.

lion electrical H.P., if the European worker were to have the advantage of as many H.P. as the American. Yet, sust perce to the war, Europe's installed coverages campaign was only about 40 per cent of

What has been sketched for Europe is actually much more nearly a tasse from the economic history of the United States than it is more prophery about a destroble feature for a Earning at nonce. But how helping to bring it about? Economic unity can be provided for the sovereign states of Western Europe by the sease treaty or treaties adopted at the end of the war. The error

violens for surveine acceptate units to Econe 1. Substactful freedom for persons and enterprises to do

should specifically cover:

3. Greatly increased freedom of trade. s. Within Europe - Sprough the application of a Europewater agreement probating the builds among all Euro-tern countries to a maximum of 20 or 15 per cent.

h. With the reg. of the world - through reduction of European turiffs on groots bought from overson. This would cell for generally lower levels on manufactured goods, and for the removal (after a reasonable period of progressive relaction) of tapific on all accordance

Correlan of an agency (with adequate revenues) through which all Europe-wide business and other affices afficeed

This would permit the economic unity of Europe to be substantially achieved. During this period. he made for a vote in the European countries on whether or not to continue the "unification provi-

stone," If the vote were in the negative, the United Nations would have proper warning that additional safertunds would be necessary to provent war. The sententiary made in this statement also at socuring comunic unification of Europe and thereby promoting the possibilities of permanent peace in

referen in Europe to existe all who shows the responsibility for bringing peace to Europe and to

President McGrau-REE Publishers Common

COMPAR MEETS the triple threat





DURING "hat dope" applications, Recitables, spray hose" is called upon to word of a triple threat; (1) the corresive action of the advent it must corry (2) the heat of the selected (3) the erosion caused by the flow of hot corpusize solvent through the base.

Resistades has won wide acceptance to aviation numerouse thops at a "hot dope" surer Euc because recopus - the heart of the Reciptoflex hose ... meets the triple threat of corrosion, hear

With a different formulation of the commer as fael, labelcation and bridgeslic lines; carrier high-notions expellence offe and bodecatic fluids without over swellers, routes or slow-biocodi In vill another form, community been fashicaed rate safety clothing. Compar closes, cure smocks. aprens, etc., have been designed to protect those who work with toxic orninic colvents assignt

So, whenever oil, mostone or other occupie solventa create un conjun or recruien problem in your shop, we suggest that you consider the possibilities of compar. Drop us a line and we'll



RESISTOFLEX

ISTOFLEX CORPORATION .

TRANSPORT

Newest Orders for Airliners Puts Backlog at \$100 Million

National reports contract for 16 Conist-Wright CW-20 Commendar, to cost \$5,000,000, and Fautern appropriate allocation. of \$25,000,000 on two contracts for CWAWs and DC-Co.

orders to a total probably around 200 units and well over \$100,000 the first large orders, estimated at 100 Accuracy of these estimates \$50,000,000, pixced less than a depends, of course, on cost of Pan American's DC-T's and the numdv \$25,000,000 your delivery with two comments More to Cesse—Further purchase ments for Orriso-Wright CW-10 claims they are the largest two-

original order for 15 DC-6's and Desgins Backing - Heretofare post-war orders for four-country Douglas planes had been the only plans for purchase of Lockheed ones concerned The Develor price unspecified, on which Pan Reports from the West Court in-Aspencement of the CW-20 orders, while made by the surimer. | Eastern's Contracts-Eastern as

rivers an unkning of the type of warket at which Curtise-Wright is arrend Eastern described the plane, commercial version of the port, as developed "to meet a defrate demand for larger payfred with ereater religibility and reduced operating costs in the 299 over 10 percent of the total over-FUse Cyclose Engines-in com-

tress, the Leckherd C-49 Courted laters and Martin Mers. The C. 46's use Prott & Whotper 2500's. With the new entires and Ourlors. Curtiss-Wright's ensin entry Eastern bones the Communica gers at a country speed of 250 mah, will be put in operation by the fall of 1946, the war permattrue and the DC-f's "se soon thereafter as possible." The line tic between South America and weather conditions. The C-16 II rune over the "brand, polyson India and China



Cartiss-Wright's Bid for Past-War Nacket: This new picture should the with which Curties-Wright is easking its eager hid for the past-seen

new planes. The line's vice-pres-

there and is said to be stissuated

of the DC-1 is being built, although Nutional Orders 16 CW-20's -\$5,000,000, curse from National

its run begween the South and New York The other, for an un-

displaced number of CW-20%, was

pounced the summer of a contract by its promient, Copt. Edduc Rickenbacker, sed G. W. Vaughen. number of pianes purchased

A heavy expansion program in Latin America figures in Pan plans to purchase these her planes. 100.Pessenger Planes - Pan American expects the slaps to ear-

ry 188 or more passengers, though would have a 4,000-mile range Gross takeoff weight would be 150,000 pounds, or more than twice

another an advanced two-engage chases, was held in Weshington by J. Clawson Boop, vice-poundent and treasurer, and Henry L.

Pan American ennounced lest gine planes, the larger of which weekd carry 106 passengers to "the modifies suitable for air shipment more than 300 mah, in an owers.



Orders "Corresponded": Eastern Air Lines distilled hast ss pert of a \$25,990,000 purchase progress that also raciades fourwith \$113.324.450 in the 1943 neengene Douglas DC-4's. Cupt. Ed-

about acquirer new planes. The

Survey of Argentine Air Potential Made

Department of Commerce state inticisms, who have been working Days 1608 execut and impact

\$18,633,153 was export and \$50.- First Fatal Accident 546.766 was invest for domestic consumption Of this total, comin 1838 much: develop into thems wax killed and the cargo handler Mecnychile reports from the auticile for an immunostation

Airline Revenues Off for Fiscal 1944 Operating per drops to \$27,148.

848 from \$10,463,089 for pre-Despite expanded parrenger

This figure bowever, is not an

b Freight Exposes Off-Chief reasons for the drop in not operating facal year as against 8,429,353 rer requirements Substantial in-

non CAR's farges which show that derive fiscal 1946, passenger reverses climbed to \$95,479,700 printed 1945's \$79.267,679

All Assessed Avertion, Inc. only lone, Pa. recently, in an estaservice and 200,000 package. The wing of a packup plane struck a tree on a second circuit

WADSWORTH SKILLS



· · · built up through half a century of leadership in the exacting Worch Case Industry will be available soon to many manufacturers who will require large quantities of small precision

parts for their postwar assemblies. Work of this character is now being supplied to many leading companies which normally produce radio equipment, refrieerators, automotive parts, precision instruments

Illustrated are nine small components of an Ordnance assembly which Wadsworth furnishes in

great numbers. The production of these meres which are held to very close tolerances, brings a score of special Wadsworth facilities into play. Wadsworth workers' feeling

for percision and their ability to get work out on time will case postwar headaches for many producers



PROME SINCE AND A CONCURSATI DISEASED

AVIATION NEWS . Ortober 5, 1984

CURRENTLY SEPTING THESE

INDUSTRIES

FACILITIES

EAL Abandons Fight For So. America Lines Richesburker errorls company's

plen to concretence on proposed New Orleans-Texas-Mexico and Missel-Taggo-New Orlean-Bal-

By DANIEL S. WENTZ II

Eustern Air Loney President E. V. Histornbacker dropped a block- Airways buster in the Civil Aerocoutics Mexico and Marai-Tomos-New Orleans, Barban routes The com-

Readure from a propered shireh Americal The unexpected after-

entime's narroution rection

case brought sharp and immediate attacks from coursel for other section "burbly unfurturate." Re-

After a laur exposition of

gravide a link between Balhon and

Co's share in Panaers bad been pared statement cosmitted of a peneral entirem of Pan American plications for restes between Mi-"No company, so fortified by monopoly, and purged with eqnesturate" he derined "result fall 3 to Turneyee and Meanes City from h Avails Ship Lines-Under oursmitted to operate againet,

Bose Figst Witness-Per Amerand transcent I Clawson Boon In view of this double-headed while they do not ask to serve any poonts not already on the comclosely with Paradea, identity prehenave effort to turbies up that

that, although the namely pur-

unbalance of trade between U. 8

way facilities are personed by the

PAN AMERICAN WINS AAF AWARD: Para American Asrupas has been asserted on Army Air Forces Service Certificate for four users of training AAF codets in aericl nemerics. Parture shows presentation of Missey with, left to right. Man Jesse H. Broson, AAF crareer section correspondent in Martir, Mer. Gen Welter F. Kress, commanders peneral of the AAF Central Flying Travers

its South American apolloations.



Scela right to serve Bossos, Chicont and Dunnir and Baltimore us had weather. Pan American Airways, 15 a

company polary and a request for Board to devicante Rallimore. But-American Export Atritres, only Washington New York and Box-

Arronautics Act. which fareed international carriers to

asked the right to serve intersor to replace HoweveryTo with House.

tic curriers. They point out that I Asks Access to Points of Origindomestic our transportation its spolication is designed to income national paseager and cargo bus-

since exercatition from according tional routes. Therefore it is sale. Until new, Baltimore has been

a Pan American alternate to New company now requests that it be made a permanent port of entry Pan American proposes to re-

PROPOSED PLANE WITH PICKUP EQUIPMENT:

two weed by All Assertion Assertion which has the weedlass on the floor. The drawing by Don Security, executive director, shown on everplace Sheduac with Montreal as its an airport and fixed bear manage-

Canadian pect of call on the trans- ment class. the request of commercial sirlines these additional authorizations on an amendment to the lines' present Started at NYE-The first mich course was green to 1942 at New New Air Classes

of surfaces at LaGuardia Airport. under the U. S. Office of Education, ing about 22 students in the free and Years A & M College will open all transportation course



DRAFT FEEDER PLANE SPECIFICATIONS

Assendications for a local pervice feeder plane, as shown on the coner of this week's News, were drawn by the cross shown here at a recent reserving at St. Lease. Members of the technical committee of the Feeder rector: Obser I. Parks, committee theirman, Halley B. Barley, pres-Seed of All American Assertion, Eugene B. Screene, Burn School of Association Revises B. Otto, Otto Ametica Corp., and Col. Herbert Fag, Southern Ametica Corp.

CAB Names 20:Man Tax Study Panel

Personnel of group indicates closer working relationship be-The committee is under chairmanahip of CAB Member Oswald well represented by officers of

h Membership-Other mambers of Following are the Board's au-Dixwell Pierce, secretary, Call-

formia State Board of Equalication; for the occurren wealth of Property one: James W. director of the Barrier of Business Besearch, Joseph McGeldnek, or, you-prendent, Pan American Economics, U of Wisopenits; J. urbia University. A H Stone, charman, Mississippi State Tex cartion of Assessing Officers; Boxrector of the Budget, Commanald Welch, Sureuz of Internal



200 servere Second choose for fareign travel was Englity-four percent mad



SIGN FOR PCA DC-4'S

San Francisco Gers

Road-Free Airport

struction. The state is exchanging mulitary cargo vectors.

Domestic Contracts Translateds of sixties about have count special specusions close by Nov. 1.

Airlines doing demester flying dees of PCA J. H. Correschool of their contracts. About two-

Francis Fedities-As a result.

far more, Western Air Lines, and

ATC Terminates

City via Indianapolis, and Steam Kanesa City, Topoka, Seitra, Wadyin Ghishara City and

MCA Operations - MCA cataroute May 18, 1943, about 16,700,-Mid-Continent conects the exnemence it raised with the C-49 ATC work to help it when it

rice will erry the city a 7 500. way. The development is of west. An additional 550 seres neverseas. Mid-Continent hilberts Alaskan Air Carriers Report New High in Passenger Operations

Total of 83.823 carried for 12 months ended lune 30, 1944, is put at nearly 23 times figure for like 1930 period; freight poundage lowest since 1937 fiscal year.

New regards for measurager trad- reason to expect an neconstitual Do were established by Alaskan Flatiery, Efforts are being made ed June 33, 1933 Passenece-miller flown found a new reak at 12.000. the number of passenger-rates and to ownered additional stations Corresponding Lacking-Piffinal period, when 1.664,517 no construction Only 530 rest. Freight Paurdage-Pounds of

6.947.556 pounds were moved Jane 20 yearly totals of Alaskan sirenti operationi are shews in

June 30, 1937, when 2.947,726

A Story Alberta on Made - Deat mate to Marsin, Hong Kong, Calcutta,

Alaska Technical developments

furnishing of correspondence to every community is a possibility

The report points out that there are approximately 999 miles of referents and 3 200 reales of while shout \$23,500 sessors rades, "Acr. transmitation is pervine as the "Planes operate to and from the summer months. The vastness



STRAW SPREADER FOR DUSTY AIRPORTS:



Favors Airlines for Passengers-

CAA'S NEW VISUAL WEATHER INDICATOR. interpret then the assal teletype energipes. Preture at

Cool Arrangative Administration has developed a co, operated by arrang traffic course paster or new weather redinance is clause in faster and easier to smeather bureau personnel. At right at the redicator as if a researcd atop the flight progress board at

radio facilities and contactic prob-

Free Urges Airlines. Ships Share Trade District of ferrise trade benecessity of fleveloping foreign

All transcense passenger traffic will so to the orders, he prereceived before members of the peller Club of the United States tion, Mr. Free said. 'The plane will be the teel for building up thip sargues," he preorders and the shire will deliver



7,350-mile route between Californ The line has carried \$6,990 mansengers, 6,434,619 pouzde of cares and 6,830,532 pounds of mail, a NORTHWEST'S REPREST. total weight of 21,035,704 pounds. please. Shell of alsonouse, it has

bound clapsed time from San Franrises to Townsville, Australia was

National Inaugurates New York Flights

National Airlines opened its New York service on Sunday, Oct 1, with an insugaral fight from Mi-

ATC Takes Over Unit Transpression shape of the

sar base at 5,336-acre Mather carne a major unit of the Air nountement was made recently placed 11,600,000 reales ower the that \$2,000,000 is to be spent on to accommodate ATC transport Third House Group Studies Air Policy Two members of five-men sub-

committee of Post-War Roy nessir Policy Committee are more abscure of rail-thin operation of airlines A third House room it study

policy of the United States. The and Shipping Sat-Congrettee of new stadying pest-war swiften trade are Res Dimos Works Welter (D. Pa.), Rep Sohn E Fogarty (D. R. L.), Rep Stehard J. Welch (R. Calif.), and Res. Charles A. Wolverton (R. N. J. Welch is considered one of the Pahenes Committee Wolverton

audines. ship companies of a "chosen in-

Pointing to the deadlock botween the Merchant Marine and Paterner Committee and the Interriale and Ference Commerce Committee, Worley committed that "it may be well to have a durnterested commutice of the Werler said the sub-committee would file a formal report with the Hoose, probably around the end of November 2: will_take a

object of United's completel one. mates at New York, arrives in Lee An reles at 5/22 P M It does not a CAN May Be Represented-Vice depart for San Francisco until 7.15 P. M. It was United's conten-Marriage Congression, already has tion that this lawyer of one hour spoken for steamship air opera-

NEW AIRFIELD MAT:

small organ namely sero of one reasonable to have our . The notions

TWA Layover at L.A. Cut to 45 Minutes Ovel Acresomes Beard has

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instrug at Albequerque or points

tive Nov. 1. will limit this lawover 55 minutes numbs within the U.S. on any arine fight if the octificate of the (AM 15. Denver-Purble segment). has operation the fight contains and Kastern (AM 5 and 6, Boston-New York and Bermingham-Ator terminating such flight of that Winter Schedules among TWA, alleged the latter injects for AM 37, prohibiting lechangeover to wrater schedules overs at Los Angeles

bres will make their arrest!

Nov. 1. They are thosen by inhour or two than summer ergencreater flights. Winter schedules The longer flight times apply

The new CAB reculation effec-

TOTA Promiting sale of any proach is more after necessary,

closed enginelly stated for Mather 300, Which employs a fleet of 20 AVIATION NEWS a Origin 5 1888

AVIATION NEWS . Onober 8, 1844

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Nov. 28. Sporting for principal cubility in the

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No. 10. Environ of Editions. Admin. of projection of 1984 Air Transport and the Air Section Air Conference of the Air Section Air Distance of Dec. 11 Canada dec 20 De Proble arrond & Re. 11 1965. Tuttatro buring date, Control Fal. 1, 1965. Tuttatro buring date, Acet Design HE et al.)

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An reasont of the Eyes School of Accessories, the function of the house of the tendent of the school of Accessories for Lease Powder could be being for Aggress Charles President, Calcard and Carlon. Equi. Alterting doubt Affilier Life Journal of Company and America. Print asserting America, Print asserting Desired Abilities. Some Thighpurg for Community Sprinters, and El. M. Adaddes. Some Desired and Company and Management and Hospital Sprinters, where the Company and Hospital Sprinters, which is Company and Hospital Sprinters. sufficiently to receive interest Laurent Tra-mer M. againgt, therein, was consisted anchor for following summars: The first has been bothly to constraintly with the softmal and the following and the softmal

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A Bane potinting.....The occurrence do recessity of course a revised report ha an informal settlement Board on July 26, 1944, the beard

For the 1943 focal year, moreas 200,000. After replication of tay credits this would recall to a net post-way redunds or a total reduc-

> Airline Worker Safers Statution of the National Source place in 1942 to 25th place in 1942.

cadents during 1942 accounted for industry was in mith place during

Award for Trippe

recoverings of "his apparation". the people of all the American which has effectively linked all

SHOPTLINES A pertriction in TWA's agreement demestic current until 33 months after deliveres to VWA have been

corndated TWA's original pre-war

through long experience in building gircraft. MERCURY AIRCRAFT INC SAFE SHEADS - PARE THREE

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country, whether in charmetry, physics, marketing, construction, metallingy, electrical or other plans of regiments.

Backers expect such sequence to full into twic classes, these made to solve immediate problems of inferest to refuscial companies, for which the lives obtain will receive fair compensation from the farm

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Wright Acro's 25 Years

Writter Amoustropes Cree marks in 20th accommendation of the words I heart wavening was to colour 3 and the words I heart manufacture of accommission power plants. Although act incorporated until 1958 to fostige actually starts as it more precised until 1958 to fostige actually starts as it more than the start of th

only 18 pounds per horspewer.

The represe demanded incorporation by the Wright brothers of a million dollar esequency, postscenario of the possest Weight Assessment Corporation with the position of the even larger Custins-Wright Corp., seeks ago, with a some of truming out lighter and transpers attention to provide the position of the position o

lets.

After a sharp occurrence in the post-World War I com, the company again began expansion with extract of its fancess Whitherest, which powered Ryrd and Spensett to the North Pole, the Atlante flights of Lindburgh, Chamberlits, Eschert, Ryrd, Balchen, Acousta Marliand and Reproducing the Writhless

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To Aviation News Readers To assess assessed the editorial steff of Aviation News has been sending quantisensires to selected absorbers asking their opinions of the magnitus.

I "New our own seem secting quantenesses to execute subscriptors asking their opinions of the magnitum Ascerding to McGrow-Hill research mee, the quantitative response but here far show the untel serwin rating for sich magnitum. The editorial stell theaks those research with hard before treating who have taken time to first and retires the forms, each of which has been studied by the editors.

It is contribute that medican have expressed help against four the News. They are present they flat properly adopted to the contribute of the News and Ne

An appropriate when a sense on the prospect for jet propelsum and turbine power.
Further expension is news service to the industry and avantum public will be added during the wire After Vectory, Atvance News will be available of propositional programmers, and precial officers and

burness are being studied for such news centers as Londer, Parle Ris. Moscow, Bydney, and Changking Rosent E Wood



When you STOP vibration you SAVE maintenance costs

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